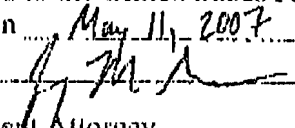


RECEIVED
CENTRAL FAX CENTER

MAY 11 2007

I hereby certify that this correspondence is being
facsimile transmitted to the United States Patent and
Trademark Office on May 11, 2007.


Jay M. Sanders, Patent Attorney

INFORMATION DISCLOSURE
STATEMENT

Examining Group 1639
Patent Application
Docket No. UGR-100XD1
Serial No. 10/828,919
Confirmation No. 6165

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1639
Applicants : Michael J. Adang, Laura M. Kasman
Serial No. : 10/828,919
Conf. No. : 6165
Filed : April 20, 2004
For : Phage Display of a Biologically Active *Bacillus thuringiensis* Toxin

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
(VIA Facsimile 571-273-8300)

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. §1.97 and §1.98, Applicants would like to bring to the attention of the Examiner the references listed on the attached Form PTO/SB/08B.

Pursuant to 37 C.F.R. §1.98(d), copies of the references cited on the attached Form PTO/SB/08B are not provided herewith because copies of these references were submitted to the Patent Office in prior U.S. Patent Application Serial No. 09/629,596 (filed July 31, 2000). The subject application (Serial No. 10/828,919) claims the benefit under 35 U.S.C. §120 of the filing date of the patent application 09/629,596. Applicants respectfully request that the copies of references supplied in the Information Disclosure Statement of the 09/629,596 application, as well as, any references cited during the prosecution thereof, be made of record in the 10/828,919 application.

FAUGRMUGR-100XD1\PTO\ISSUES doc\DNB\mrc

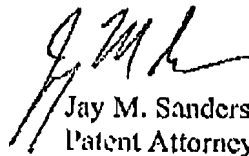
2

Docket No. UGR-100XD1
Serial No. 10/828,919

It is respectfully requested that the references cited on the attached Form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statements. Though no fees are believed to be required for this paper, the Patent Office is hereby authorized to charge any fees required by this paper to Deposit Account No. 19-0065.

Respectfully submitted,


Jay M. Sanders
Patent Attorney

Registration No. 39,355

Phone No.: 352-375-8100

Fax No.: 352-372-5800

Address: P.O. Box 142950
Gainesville, FL 32614-2950May 11, 2007
Date/Signed & Faxed

JMS/mrc

Attachment: Form PTO/SB/0813

J:\UGR\UGR-100XD1\PTO\SMS\JMS.doc\DNB/mrc

RECEIVED
CENTRAL FAX CENTER

MAY 11 2007

PTO/SB/04N (05 03)

Approved for use through 07/31/2008. OMB 0051 0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/P10

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 5

Complete if Known	
Application Number	10/828,919
Filing Date	April 4, 2004
First Named Inventor	Michael J. Adang
Group Art Unit	1639
Examiner Name	Sue Xu Liu
Attorney Docket Number	UGR-100XD1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	BARTEL, D., and Szostak, J., "Isolation of new ribozymes from a large pool of random sequences," Science (1993) pp:1411-1418, Vol. 261	
	R2	BENJAMIN, Howard, Praecia Pharmaceuticals, Inc., Cambridge, MA; (unpublished)	
	R3	BOSCH, D., B. Schipper, H. Van Der Kleij, R.A. De Maagd, and W.J. Steikema, "Recombinant Bacillus thuringiensis crystal proteins with new properties Possibilities for resistance management," Biotechnology (1994) pp:915-918, Vol. 12	
	R4	BULLOCK <i>et al.</i> , "XL1-Blue: A high efficiency plasmid transforming <i>recA</i> <i>Escherichia coli</i> strain with Beta-Galactosidase selection," BioTechniques, (1987) pp 376-379; Vol 5 (4)	
	R5	CADWELL, R., and Joyce, G.F., "Randomization of genes by PCR mutagenesis," PCR Methods Appl. (1992) pp:28-33, Vol. 2	
	R6	CADWELL, R., and Joyce, G. (1994) "Mutagenic PCR," PCR Methods/App. (1994) pp:S136-S140, Vol. 32	
	R7	CHEN, X.J., M.K. Lou, and D.H. Dean (1993) "Site-directed mutations in a highly conserved region of Bacillus thuringiensis δ -endotoxin affect inhibitions of short circuit current across Bombyx mori midguts," Proc. Natl. Acad. Sci. USA (1993) pp:9041-9045, Vol. 90	
	R8	CREA <i>et al.</i> , "Chemical synthesis of genes for human insulin," Proc.Natl Acad. Sci. (1978), pp 5765-5769, Vol. 75	
	R9	CRICKMORE, N., D.R. Ziegler, J. Gelfelson, E. Schnepf, J. Van Rie, D. Lereclus, J. Baum, and D.H. Dean "Revision of the nomenclature of the Bacillus thuringiensis pesticidal crystal proteins," Microbiology and Molecular Biology Reviews, (1998) pp:807-813, Vol. 62	
	R10	DEAN, D. H., F. Rajamohan, M. K. Leo, S. J. Wu, X. J. Chen, E. Alcantara, and S. R. Hussain, "Probing the mechanism of action of Bacillus thuringiensis insecticidal proteins by site-directed mutagenesis - A minireview," Genes (1990) pp:111-117, Vol. 179	
	R11	DE MAAGD, R. A., H. van der Kleij, P. Bakker, W.J. Steikema, and D. Bosch, "Different domains of Bacillus thuringiensis δ -endotoxins can bind to insect midgut membrane proteins on ligand blots," App. Environ. Microbiol. (1996) pp:2763-2767, Vol. 62	
	R12	ENGLISH, L. and Readly, T.L., "Delt endotoxin inhibits a phosphatase in midgut epithelial membranes of Heliothis virescens," Insect Biochem. (1989) pp:145-152, Vol. 19	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.90. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-0199 (1-800-786-9199) and select option 2.

JAWGKUGR-100XD1NP10LDSude SB-08 doc/DNIM/nrc

RECEIVED
CENTRAL FAX CENTER

MAY 11 2007

PTO/SB/030 (08 03)

Approved for use through 07/31/2006 OM 0551-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for Form 1410BPTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

of

5

Complete if Known

Application Number	10/828,919
Filing Date	April 4, 2004
First Named Inventor	Michael J. Adang
Group Art Unit	1639
Examiner Name	Sue Xu Liu
Attorney Docket Number	UGR-100XD1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T ²
	R13	ESTRUCH J J, Carozzi N B, Desai N, Duck N B, Warren G W, Kozel M G., "Transgenic plants An emerging approach to pest control," Nature Biotechnology, (1997) pp.137-141, Vol. 15	
	R14	FENELSON, J.S., J. Payne, and L. Kim, "Bacillus thuringiensis Insects and beyond," Biotechnology (1992) pp.271-276, Vol. 10	
	R15	GARCZYNSKI, S.F., Crim, J.W., and Adang, M.J., "Identification of putative insect brush border membrane-binding molecules specific to Bacillus thuringiensis d-endotoxin by protein blot analysis," Appl. Environ. Microbiol. (1991) pp.2810-2820, Vol. 57	
	R16	GC, A.Z. et al., "Location of the Bombyx mori specificity domain on a Bacillus thuringiensis Delta-endotoxin protein," Proc. Natl. Acad. Sci USA (1989) pp.4037-4041, Vol. 86	
	R17	GROCHULSKI, P., L. Masson, S. Borisova, M. Puzial-Carey, J.-L. Schwartz, R. Brousseau, and M. Cygler "Bacillus thuringiensis Cry1A(a) insecticidal toxin crystal structure and channel formation," J. Mol. Biol. (1995) pp.447-464, Vol. 254	
	R18	HOFMANN, C., H. Vanderbruggen, H. Hofte, J. Van Rie, S. Jansons, and H. Van Mellaert, "Specificity of Bacillus thuringiensis d-endotoxins is correlated with the presence of high affinity binding sites in the brush border membrane of target insect midguts," Proc. Natl. Acad. Sci. USA (1988) pp.7844-7848, Vol. 85	
	R19	HOFTE, H., S. Buystens, M. Vack, and J. Leemans, "Fusion proteins with both insecticidal and neomycin phosphotransferase II activity," FEBS Lett. (1988) pp.364-370, Vol. 226	
	R20	HOGREFE, H.H., J.R. Amberg, B.N. Hay, J.A. Sorge, and B. Shopes, "Cloning in a bacteriophage lambda vector for the display of binding proteins on filamentous phage," Gene (1993) pp.85-91, Vol. 137	
	R21	HUNTER, W. and Greenwood, F., "Preparation of iodine-131 labeled human growth hormone of high specific activity," Nature (1962) pp.495-496, Vol. 194	
	R22	KASMAN, Laura M., Lukowiak, Andrew A., Garczynski, Stephen F., McNall, Rebecca J., Youngman, Phil, and Adang, Michael, "Phage Display of a Biologically Active Bacillus thuringiensis Toxin", Applied and Environmental Microbiology, (1998) pp.2895-3003, Vol 64, No. 8	
	R23	KEOHAVONG, P., and Tilly, W.G., "Fidelity of DNA polymerases in DNA amplification," Proc. Natl. Acad. Sci. U.S.A. (1989) pp.9253-9257, Vol. 86	
	R24	KNIGHT, P.J., N. Crickmore, and D.J. Ellar, "The receptor for Bacillus thuringiensis Cry1A(c) delta-endotoxin in the brush border membrane of the lepidopteran Manduca sexta is aminopeptidase N," Molec. Microbiol. (1994) pp.429-436, Vol. 11	

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER Initial if reviewed considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

RECEIVED
CENTRAL FAX CENTER

MAY 11 2007

P10/SB/05A (08-03)

Approved for use through 07/31/2008 OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1443B/P10

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3

of

5

Complete if Known

Application Number	10/828,919
Filing Date	April 4, 2004
First Named Inventor	Michael J. Adang
Group Art Unit	1639
Examiner Name	Sue Xu Liu
Attorney Docket Number	UGR-100XD1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the journal (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	7 ²
	R25	KNOWLES, B.H. and J.A.T. Dow, "The crystal delta-endotoxins of <i>Bacillus thuringiensis</i> - models for their mechanism of action on the insect gut," <i>Bioassays</i> (1993) pp:469-476, Vol. 15	
	R26	LAMBERT, B. and Peterken, M., "Insecticidal promise of <i>Bacillus thuringiensis</i> ," <i>Bioscience</i> (1992) pp:112-122, Vol. 42	
	R27	LEE, M.K., F. Rajamohan, F. Gould, and D.H. Dean, "Resistance to <i>Bacillus thuringiensis</i> Cry1A d-endotoxins in a laboratory-selected <i>Heliothis virescens</i> strain is related to receptor alteration," <i>Appl. Environ. Microbiol.</i> (1995) pp:3036-3042, Vol. 61	
	R28	LEE, M.K., B.A. Young and D.H. Dean, "Domain III exchanges of <i>Bacillus thuringiensis</i> Cry1A toxins affect binding to different gypsy moth midgut receptors," <i>Biochem. Biophys. Res. Comm.</i> (1995) pp:306-312, Vol. 216	
	R29	LI, J., Carroll, J., and Ellar, D.J., "Crystal structure of insecticidal d-endotoxin from <i>Bacillus thuringiensis</i> at 2.5 Å resolution," <i>Nature</i> (1991) pp:615-621, Vol. 353	
	R30	MASSONI, L., Y.-J. Lu, A. Mazza, R. Brosseau, and M.J. Adang, "The Cry1A(c) receptor purified from <i>Manduca sexta</i> displays multiple specificities," <i>J. Biol. Chem.</i> (1995) pp:20309-20315, Vol. 270	
	R31	MARZARI, R., P. Edoril, R.K. Bhatnagar, S. Ahmad, A. Selvapandiyan, and A. Bradbury, "Phage display of <i>Bacillus thuringiensis</i> Cry1A(a) toxin," <i>FEBS Letters</i> (1997) pp:27-31 Vol. 411	
	R32	MESSING <i>et al.</i> , "A system for shotgun DNA sequencing," <i>Nucleic Acids Res.</i> , (1981) pp:309-321, Vol. 9	
	R33	PARMELEY, S.F. and Smith, G.P., "Antibody-selectable filamentous phage vectors affinity purification of target genes," <i>Gene</i> (1988) pp:305-318, Vol. 73	
	R34	RAJAMOHAN, F., J.A. Carroll, F. Gould, and D.H. Dean, "Role of domain II, loop 2 residues of <i>Bacillus thuringiensis</i> Cry1Ab d-endotoxin in reversible and irreversible binding to <i>Manduca sexta</i> and <i>Heliothis virescens</i> ," <i>J. Biol. Chem.</i> (1996) pp:2390-2396, Vol. 271	
	R35	SAIKI, R.K., Gelfand, D.H., Stoffel, S., Scharf, S.J., Higuchi, R., Horn, G.T., Mullis, K.B., and Erlich, H.A., "Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase," <i>Science</i> (1988) pp:487-491, Vol. 239	
	R36	SANFADALA, S., F.S. Walters, L. H. English, and M.J. Adang, "A mixture of <i>Manduca sexta</i> aminopeptidase and phosphatase enhances <i>Bacillus thuringiensis</i> insecticidal Cry1A(c) toxin binding and B6RbW ⁺ efflux in vitro," <i>J. Biol. Chem.</i> (1994) pp:10088-10092, Vol. 269, No. 13	

Examiner
Signature

Date

Considered

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

†Applicant's unique citation designation number (optional) *Applicant is to place a check mark here if English language Translation is attached

This collection of information is required by 37 CFR 1.99. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 34 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

14UGRUGR-100XD1/P10/OMB/SB-08.doc/DND/ture

RECEIVED
CENTRAL FAX CENTER

MAY 11 2007

PTO/SB/008 (08-03)

Approved for use through 07/31/2008. OMB 0551-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449USPTO
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4 of 5

Complete if Known

Application Number	10/828,919
Filing Date	April 4, 2004
First Named Inventor	Michael J. Adang
Group Art Unit	1639
Examiner Name	Sue Xu Liu
Attorney Docket Number	UGR-100XD1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
	R37	SCHWARTZ, J.-L., Y.J. Lu, P. Schaefer, R. Brousseau, L. Masson, R. Laprade, and M. J. Adang, "Ion channels formed in planar lipid bilayers by Bacillus thuringiensis toxins in the presence of Manduca sexta midgut receptors," FEBS Lett. (1997) pp.270-273, Vol. 412	
	R38	SCOTT, J. K. and Smith, G. P., "Searching for peptide ligands with an epitope library," Science (1990) pp:386-390, Vol. 249	
	R39	SMITH, G.P., "Filamentous phage assembly Morphogenetically defective mutants that do not kill the host," Virology (1988) pp:156-165, Vol. 167	
	R40	SMITH, G.P. and D. J. Ellar, "Mutagenesis of two surface exposed loops of the Bacillus thuringiensis Cry1C d-endotoxin affects insecticidal specificity," Biochem. J. (1994) pp:611-616, Vol. 302	
	R41	STEMMER, W.P.C., "Rapid evolution of a protein in vitro by DNA shuffling," Nature (London) (1994a) pp:380-391, Vol. 370	
	R42	STEMMER, W.P.C., "DNA shuffling by random fragmentation and reassembly: In vitro recombination for molecular evolution," Proc. Natl. Acad. Sci. U.S.A. (1994b) pp:10747-10751, Vol. 91	
	R43	STEWART, G.N., M.J. Adang, J.N. Ali, H.R. Boerma, G. Cardineau, D. Tucker, and W.A. Parrott, "Genetic transformation, recovery, and characterization of fertile soybean transgenic for a synthetic Bacillus thuringiensis cry1Ac gene," Plant Physiol. (1996) pp:121-129, Vol. 112	
	R44	TARASHNIK, R.E., T. Malvar, Y.-B. Liu, N. Finson, D. Boethakur, B.S. Shin, S.-H. Park, L. Masson, R. DeMaagd, and D. Bosch, "Cross-resistance of diamondback moth implies altered interactions with Domain II of Bacillus thuringiensis toxins," Appl. Environ. Microbiol. (1996) pp:2839-2844, Vol. 62	
	R45	VAN RIEL, J., S. Janssens, H. Hofte, D. Degheele, and H. Van Melleart, "Receptors on the brush border membrane of the insect midgut as determinants of the specificity of B. thuringiensis delta-endotoxins," Appl. Environ. Microbiol. (1990) pp:1378-1385, Vol. 56	
	R46	WADIKO, H. and Yasuda, E., "Bacillus thuringiensis protoxin location of toxic border and requirement of non-toxic domain for high level in vivo production of active toxin," Microbiology (1995) pp:629-639, Vol. 141	
	R47	WOLTERSBERGER, M.G., X.J. Chen, and D.H. Dean, "Site-directed mutations on the third domain of Bacillus thuringiensis delta-endotoxin Cry1Aa affect its ability to increase the permeability of Bombyx mori midgut brush border membrane vesicles," Appl. Environ. Microbiol. (1996) pp:279-282, Vol. 62	
	R48	WOLTERSBERGER, M.G., Lulhy, P., Maurer, A., Parenti, P., Sacchi, V.F., Giordano, B., and Hanozel, G.M., "Preparation and partial characterization of amino acid transporting brush border membrane vesicles from the larval midgut of the cabbage butterfly (Pieris brassicae)," Comp. Biochem. Physiol. (1987) pp:301-308, Vol. 86A	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

†Applicant's unique citation designation number (optional). ‡Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.93. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FILES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

J:\UGR\UGR-100XD1\PTO\DISC\SB-08.doc\DN1\mrc

RECEIVED
CENTRAL FAX CENTER

MAY 11 2007

PTO/SB/083 (08-03)

Approved for use through 07/31/2008. OMB 0551-0031

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substituted for form 1413/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

5

of

5

Complete if Known

Application Number	10/828,919
Filing Date	April 4, 2004
First Named Inventor	Michael J. Adang
Group Art Unit	1639
Examiner Name	Sue Xu Liu
Attorney Docket Number	UGR-100XD1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issu number(s), publisher, city and/or country where published.	T ²
	R37	ZOLLER et al., "Oligonucleotide-directed mutagenesis using M13-derived vectors: an efficient and general procedure for the production of point mutations in any fragment of DNA, Nucleic Acids Res., (1982) pp 6487-6504, Vol. 10	
	R38		
	R39		
	R40		
	R41		
	R42		
	R43		
	R44		
	R45		
	R46		
	R47		
	R48		

Examiner
Signature

Date

Considered

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. This information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-783-9199) and select option 2.

J:\MICHIGAN\100XD\INPT\CONT\SL-08.doc\DNIS\mic